

NOTE:

We strongly urge the participation of parents/guardians and Clubbers in constructing the car. The Clubber should be allowed to do as much of the construction as possible.

If a Clubber is unable to receive help at home, the following "Build Days" will be held at the home of Scott & Paula!
(161 Eunice; El Dorado)

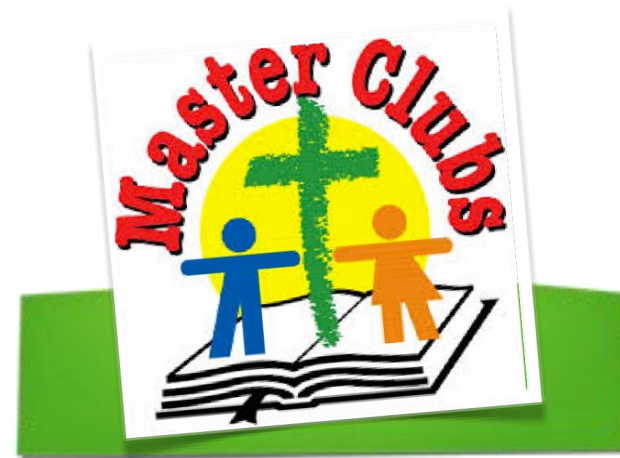
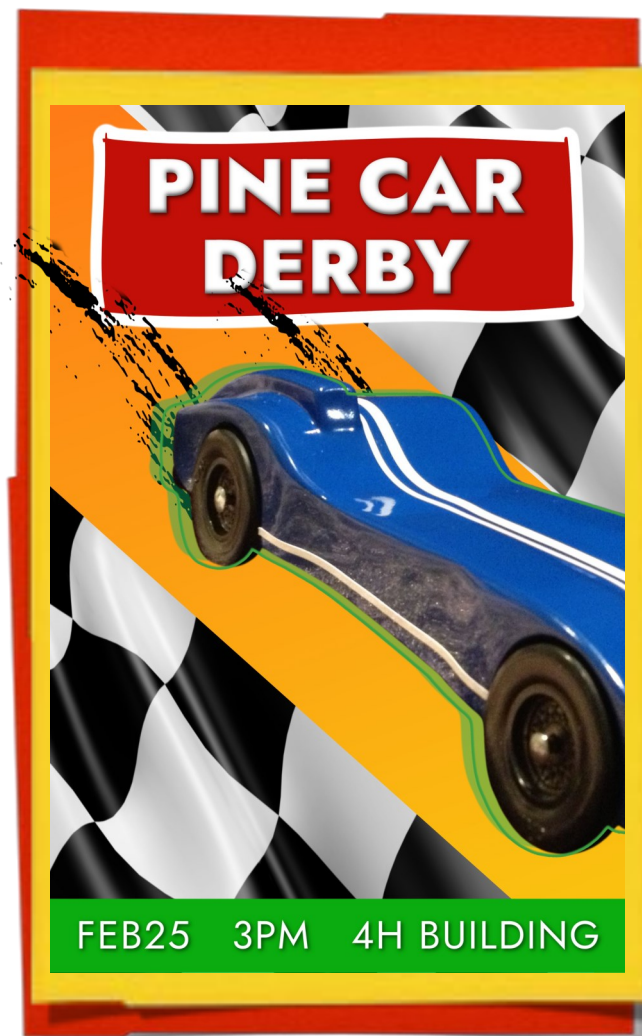
Saturday, Jan 28 | 1-4pm

Saturday, Feb 4 | 1-4pm

Saturday, Feb 11 | 1-4pm

Saturday, Feb 18 | 1-4pm

- ◆ Draw car design on paper first. You may draw your own or select a specific design from a magazine, website, brochure, or newspaper. Cars may be built to look like real race cars or another creative design. Design judging will be based on how well your car resembles what it is meant to be, as well as how well it is constructed and finished. Use your imagination!
- ◆ Outline your design on the wood block. Rough cut the shape using a coping saw, jig saw, band saw, knife, or power sander (adult supervision is strongly recommended!). Using successively finer grades of sandpaper give the car its final shape and then smooth the surface. Before painting, add a couple coats of sanding sealer, let it dry, and sand with fine sandpaper.
- ◆ Cars should be carefully painted to compete for design awards. The quality of the car's finish may be determined by the number of paint coats and proper drying time between coats (hint: don't wait until the day before the race to paint your car). You may also use other commercially available decals to enhance your design.
- ◆ The track is designed for the lane strips to keep the cars in their proper lanes. Use only the wheels and axles furnished in the kit. Axles may be polished. The tread surface of the wheels may be lightly sanded to reduce friction. Be careful when sanding wheels as too much friction can melt the plastic. Slots for the axles have been pre-cut in the wood block. You may use them or cut your own. If you reposition or camber the axles, make sure the distance between the wheels is at least 1 3/4" and the bottom of the car is at least 3/8" above the ground so it will not rub on the lane strip and slow the car.
- ◆ Winning speed cars usually weigh the maximum 5 ounces or a little less. Once cars are carved, they usually weigh only 2 to 3 ounces (make sure you include wheels and axles). Weight may be added by securely attaching commercially purchased or homemade weights with screws or glue (stay within size limits, including ground clearance). No loose or moving weights are allowed. If a car is a little too heavy, drill out some wood from the bottom. If a little too light, add screw(s) to the bottom (countersunk) or other small weights. Once a car has been officially weighed and accepted, no additional weight may be added.



Pine Car Construction Rules

The following rules may be modified by your church for your own derby, but these rules are strictly enforced for the Grand National Pine Car Derby. We suggest that you follow them at your church so your cars will qualify for the Grand National if you choose to send them.



- ◆ All cars raced in the Grand Nationals must have been built from the official Master Club Race Car Kit. (This means that the original Master Clubs wheels must be mounted with the axles purchased from Master Clubs in the Pine Car kit.)
- ◆ Maximum car size including wheels is 7 inches long and 2.75 inches wide.
- ◆ Minimum width between wheels is 1.75 inches.
- ◆ Minimum ground clearance between car and track is 3/8 of an inch.
- ◆ Maximum car weight is 5 oz. (Metal or wood may be added after the car is complete to maximize this weight.) A postage scale works great for this.
- ◆ No wheel or axle bearings, bushings, springs, starting devices, loose or moving weights or parts are allowed.
- ◆ There is a height limit of 5 inches.
- ◆ Cars are not allowed to have washers on the axles between the wheel and car body.
- ◆ You may buff extra flash or irregularities off of the tires, and even shape the tire to minimize friction, but do not use any tires other than what is provided in the original Master Clubs Car Kit.
- ◆ Cars may not have any power assistance.
- ◆ Only dry lubricants such as graphite and dry Teflon may be used, and all excess must be wiped off of the car to prevent fouling the track. You may purchase this through Master Ministries as well.



Race Car Kits are available for purchase from Master Clubs for the cost of \$5.00.

RACE DETAILS

Cars MUST be registered and dropped off to Master Clubs no later than Wednesday, February 22.

WHO WILL BE RACING?

**Clubbers
Temple Friends & Family**

WHO WILL BE WINNING?

Beginners (3yrs-K): 1st, 2nd, 3rd
Primary (1st-3rd): 1st, 2nd, 3rd
Ambassadors (4th-6th): 1st, 2nd, 3rd
Outlaw Division: 1st

Awards will Also Include:

**Most Aerodynamic
Most Biblical
Most Creative
Most Detail
Most Historic
Most Humorous**

WHAT WILL WE BE EATING?

Concessions will be provided at NO charge!

JOIN US FOR THIS FUN EVENT!